

Claims

1. A sealing ring comprising an annular principal body responsible for dimensional stability and which on at least one axial side possesses a concentrically arranged annular groove having two radially opposite groove flanks, in which a sealing body, manufactured of rubber-elastic material, is held, which has a sealing bead projecting axially past the principal body, wherein the capacity of the annular groove is at least equal to the volume of the sealing body so that the annular groove is in a position of also accepting the material, which defines the sealing bead, of the sealing body when the sealing bead is acted upon and deformed.

2. The sealing ring as set forth in claim 1, wherein the flanks of the annular groove run together in the direction of the groove's depth.

3. The sealing ring as set forth in claim 1, wherein the annular groove has a greater width at the groove opening than at the groove floor.

4. The sealing ring as set forth in claim 1, wherein within the annular groove radially on at least one side of the sealing bead an annular free space is provided to receive the deformed material of the sealing bead.

5. The sealing ring as set forth in claim 4, wherein an annular inner free space is provided radially within the sealing bead and an annular outer free space is provided outside the sealing bead.

6. The sealing ring as set forth in claim 4, wherein each annular free space is delimited radially on the one hand by the sealing bead and on the other hand by the associated groove flank.

7. The sealing ring as set forth in claim 5, wherein the inner free space has a larger cross section than the outer free space.

8. The sealing ring as set forth in claim 7, wherein the inner free space is deeper than the outer free space.

9. The sealing ring as set forth in claim 7, wherein the inner free space, at least at the groove opening, is wider than the outer free space.

10. The sealing ring as set forth in claim 1, wherein the capacity of the annular groove is equal to or slightly larger than the volume of the sealing body.

11. The sealing ring as set forth in claim 1, wherein the sealing body has a foot section resting against the groove floor and bearing against the two groove flanks, from which foot section the sealing bead projects, which has a smaller width than the width of the annular groove.

12. The sealing ring as set forth in claim 1, wherein both the principal body and also the at least one sealing body is manufactured of plastic.

13. The sealing ring as set forth in claim 12, wherein the at least one sealing body is molded on the principal body by injection molding.

14. The sealing ring as set forth in claim 1, wherein the principal body consists of a thermoplastic plastic material.

15. The sealing ring as set forth in claim 1, wherein the at least one sealing body consists of an elastomeric plastic material.

16. The sealing ring as set forth in claim 1, wherein at its inner periphery a plurality of retaining projections is provided distributed about its periphery, such retaining projections being made integrally with at least sealing body and extending radially inward in relation to the principal body.

17. The sealing ring as set forth in claim 1, wherein on both axial sides of the principal body a sealing body is provided arranged in a correspondingly shaped annular groove.

18. The sealing ring as set forth in claim 17, wherein the two sealing bodies are made separately from one another.

19. The sealing ring as set forth in claim 17, wherein the two sealing bodies are connected together by material

bridges integrally, such bridges extending through the principal body axially at peripherally distributed points.